



Brief Capabilities Overview

Company Overview

- Founded in 2016 combining successful companies from across a broad experience spectrum to form an agile, high-tech solutions provider
- Critical mass in emerging warfighter domains highly relevant to the AFRL mission (intelligence, cyber, space, and the electromagnetic spectrum)
- Broad experience in research and development as well as operationally-fielded systems
- Employs over 1,300 technical experts with deep subject matter expertise worldwide
- Considerable subject matter expertise in military operations across a wide range of domains

Where research and operations meet

- Polaris Alpha has a rich history as a performer on DARPA and IARPA programs over the past 18 years
- The company has extensive experience in research and development of text analytics, semantic extraction and highly complex event reasoning over extracted and semantically aligned data
- Also the developer of the CIDNE and INDURE software baselines used in combat operating theaters to track IED and many other events via structured and unstructured text report types
 - Can serve as a rich basis for extraction of entities and events from large corpuses of textual data for which we have truth data
- Developers of a text-based data analytic, Topic Builder
 - Topic Builder has both an R&D baseline to explore the integration of new technologies (event detectors, semantic association and reasoning, etc)
 - It also has an operationally deployed capability used in combat operations and analytics today
- Polaris Alpha is the convergence of advanced R&D with real transition of technology in a single agile mid sized company

What is Topic Builder?

- Topic Builder is a web-based search and discovery tool which significantly reduces the time users spend looking for data.
- Its primary purpose is to allow users (warfighters, analysts, commanders) to quickly define 'topics' which monitor large numbers of data sources for information relevant to their missions.
- Topics can include keywords, taxonomy concepts, and geospatial, temporal and data source filters.
- It can process unstructured information from SharePoint sites, share drives, files on users' local machines, email and open source information on the Internet (RSS feeds, web sites, blogs, tweets, etc.)
- Topic Builder can also index structured relational database information including CIDNE and INDURE reports.
- It provides a highly intuitive and extensible user interface with faceted sorting of topic related data, geospatial alignment of results as well as affordances for analysts to highlight results of interest and share both results and topics amongst collaborating analysts or groups